

Roland Melody

$\text{♩} = 158$

Guitar

The image shows a musical score for 'The Four Seasons' by Vivaldi. It consists of four staves, each with a different key signature and time signature. The first staff is in G major (one sharp) and 4/4 time. The second staff is in D major (two sharps) and 4/4 time. The third staff is in A major (three sharps) and 4/4 time. The fourth staff is in E major (four sharps) and 4/4 time. The score includes various musical notations such as notes, rests, bar lines, and dynamic markings. The first staff has a key signature of one sharp (F#) and a time signature of 4/4. The second staff has a key signature of two sharps (F# and C#) and a time signature of 4/4. The third staff has a key signature of three sharps (F#, C#, and G#) and a time signature of 4/4. The fourth staff has a key signature of four sharps (F#, C#, G#, and D#) and a time signature of 4/4. The score is written in a standard musical notation style with a treble clef and a key signature of one sharp (F#) for the first staff, two sharps (F# and C#) for the second, three sharps (F#, C#, and G#) for the third, and four sharps (F#, C#, G#, and D#) for the fourth. The time signature is 4/4 for all staves. The score includes various musical notations such as notes, rests, bar lines, and dynamic markings. The first staff has a key signature of one sharp (F#) and a time signature of 4/4. The second staff has a key signature of two sharps (F# and C#) and a time signature of 4/4. The third staff has a key signature of three sharps (F#, C#, and G#) and a time signature of 4/4. The fourth staff has a key signature of four sharps (F#, C#, G#, and D#) and a time signature of 4/4. The score is written in a standard musical notation style with a treble clef and a key signature of one sharp (F#) for the first staff, two sharps (F# and C#) for the second, three sharps (F#, C#, and G#) for the third, and four sharps (F#, C#, G#, and D#) for the fourth. The time signature is 4/4 for all staves. The score includes various musical notations such as notes, rests, bar lines, and dynamic markings.

43 12 9 13 17 17 45 10 8 8-5 3 47 8

5 4 4 18 10 10 13 1 12 12-8-4 6 1 4 4-0

7 7 7 10 10 10 4 4 4-4-4-0 4 4 4 4

9 9 9 2 2 13 13-2 0 2 2-2 5 2-2 5-2-0 0

1 0 14 14 0 4 5 8 0

48 0 7-7-3 5-0 3 5 5-3-1 50 5 7-0 5-5-1 7 5-5 52 1-5-8-7-8-7

0 10-0-5 0-5-0 0 5-0-5 8 0 0-0-0-0 0 4 0 8 6 10

9 8 2 0 4-0 8 0-0 9 0 2-2-2-2-2 4 0 8

0 9 9 5 2-2-2 9 2-3-2 9-2-2 2 2 10 10

12 10 7 10 10 10 6 14 13

53 7 8-5 5 55 7 8 8-8 7 57 5 3 1

10 4 4-3 0 1 3-4 1 1 0 0-4-4 3 3 4 3-0-0 0 8 4-0-0-5

12 4 4 2 4 4 4 5-4 4 4 4-4 2 4 0-4 2

7 7 9 0 0-0-0-0 0 0 0-0-0-0 0 7 5 3

10 3-3-3 3

59 0 0-0-4-0 1 3 5 7 61 7-8 8 10 12 63 12 15 65 8

0 0-0-4-0 0 5 4 0 4-0 0-0 0 15 17 0 4 5 18 4 3

0 0-0-4-0 0 0-0-0 7 0-0-0 0 4 8 9 7 0 7

9 0 3-3-4 12 9 3

10 3 14 0 5 3 3 1 1 1 0-0-0-0

66 8 10 0 68 10 8 8 7 70 7-8-7-7-7 10 15

4 15 3-3 3-3-3 12 12 0 3-0-0-0 0 12 0 4 13

7 2 7 0 0 4 4 4 5 5 0 0 4 4 17

2-0-1 1-1 0 0 5 3 3 3 0 0 10 6

0 3 3 3 1 10

72 7-7 15 15-3-15-3 74 3 10 10 76 19 19-1-13-13 15 15 78 7 3

17 8 4 4 4 15 15 0 10 10 3-13 13 4 4 0

9 5 5 17 17 5 5 0 0-0 0 0 0 0-0-0-3

5 5 5 5 5 5 0 0 2-2-3 7

7 10

79 3 8 8 13 15 81 15 1 17 19 8 83 12 8 10 10-10-13

6 4 4 4 6 8 8 4 10 12 4 0 3 3 17

4 4 2 2 2 2 4 4 4 4 10

3-3-3 3-3-3-2 3 3 0-2-3 0 3 3 0 0-0 0 0 0

5 5 5 5 5 5 0 0 2 2 3

10 10 5 5 5 0 3 0 2 7

85 0 13 10 8 87 17 89 15 15 15 15 15 15 15 13 15 15

4 4 4 4 4 4 18 18 18 18

4 4 4 4 9 3

2 2 2 2 2 2 3

7 7

Figure 10 shows a musical score for three staves, labeled J, A, and B. The score is divided into measures 134, 136, and 138. The notes are labeled with numbers 0 through 17, and some are marked with a hat (^) or a dash (-). The staves are connected by vertical lines, indicating a continuous sequence of notes across the measures.

140 142 144

10 -17 -5 -5 -10 -10 | 17 -5 -5 -15 -15 | 15 - - -10 | 7 -7 -3 | 7 -12 -13 -15 | 15 -3 -13

13 -15 -4 -13 -10 | 18 -6 -10 -18 | 18 -4 -3 | 0 -0 -0 -4 | 3 -0 -0 -0 -8 | 0 -8

17 -14 - - - | 14 -8 - - - | 0 -0 - - - | 0 - - -4 | 5 - - -0 -4

19 - - - | 17 - - - | 0 - - - | 0 -3 - - - | 1 -2 - - - | 0 -4

0 - - - | -3 -1 - - - | -2 -5 -3 -5 - - - | - - -

146 148 150 152

15 -15 -15 -3 -3 -5 | 8 -3 -13 -13 | 10 - - -8 -8 | 10 -10 -10 -10 | 12 -13 | 15 -15 -1 -3

8 -8 -8 -4 - - - | 8 -4 -6 -6 | 15 -4 - - - | 3 -3 -3 -3 | 8 - - -4

0 - - - | - - - | 7 - - - | 2 - - -0 - - - | - - - | 2 - - -2 -2

- - - | - - - | - - - | - - - | - - - | - - -

153 155 157

15 -15 -15 -15 | 17 -15 -15 -15 -15 -15 | 15 -15 -15 -15 -12 | 13 -19 -1 -12 -10 | 10 -1 -13 -15 -17

18 -18 -0 - - - | 10 - - -10 - - - | 18 - - -4 - - - | 4 - - -3 - - - | 3 - - -6 -10

4 - - - | 2 - - -8 - - - | 10 - - -4 - - - | 4 - - -4 - - - | 8 - - -7

2 -2 - - - | 3 - - -0 - - - | - - - | - - - | 12 - - -14

- - - | 5 - - - - - - | - - - | - - - | - - - | - - -

158 160 162

17 -13 -1 -13 -1 | 10 - - -1 -1 -12 | 13 -12 -10 -8 | 5 - - -12 -10

10 -6 - - -3 -3 -3 | 3 - - -1 -12 | 6 - - -10 -8 | 0 - - -4 - - - | 15 - - -4 -4 -3

7 -7 - - - | - - - | - - - | - - - | 9 - - -4 -4

0 -0 - - - | 3 - - -3 - - - | - - - | 0 -2 - - - | 0 -0 -9 -0 -0 | 12 - - -14

3 - - - | 3 -1 -1 - - - | 1 - - -3 -5 - - - | 0 - - -0 - - - | 10 - - -

163 165 167

1 -13 -13 -12 -0 -0 -13 | 15 -15 -7 - - - | 12 -0 -13 -13 | 15 - - -13 -2

5 -4 - - - | 8 -8 -0 -4 -0 | 8 -0 -0 -6 -6 | 8 -4 -4 -18 -4 -4 -0

4 - - - | 0 - - -0 - - - | 9 - - -6 -6 | 10 -7 -4 - - - | 5 -0 -0 -5 -5

3 - - - | 0 -0 - - - | 14 - - - | 3 - - -3 - - - | 4 - - -8

- - - | 0 -0 - - - | - - - | 8 - - -7 -7

169 171 173

12 -12 -12 -12 -0 | 10 -10 -0 | 10 -13 -13 -10 | 7 - - -8 -0 -12 | 13 - - -15

5 -5 -5 - - - | 5 -0 -4 -3 | 3 -3 -6 -3 | 6 -3 -1 -1 -1 | 1 -3 | 6 -4 -8

0 -0 -8 -0 - - - | 7 - - -4 - - - | 4 -8 - - - | 7 -4 -4 - - - | 5 - - -5 -4 -10

3 -3 -3 -3 - - - | 5 - - -4 -12 - - - | 10 - - -10 - - - | 10 -7 -4 - - - | 5 -2 - - -5 -9

3 -3 -3 -3 - - - | 2 - - -2 - - - | 14 - - -14 - - - | 0 -0 - - - | 3 -3 -2

7 - - - | 11 - - - | 17 - - - | - - - | 8 - - -

175 177 179

15 -13 -13 -12 -0 | 3 - - -5 - - - | 8 -8 -5 -3 | 10 -0 -13 | 15 -15

0 -4 -17 - - - | 3 -4 - - - | 3 -3 -4 -8 | 0 - - -6 - - - | 8 -8

4 - - - | 0 - - -0 - - - | 0 - - -0 - - - | 0 - - -0 - - - | 4 -8

2 - - - | 5 - - -0 - - - | 0 -0 -2 -2 -3 -0 | 0 - - -0 - - - | 0 -0 -9

181 183 185

15 -15 -15 -17 -1 -15 | 19 -1 -7 -1 | 19 -19 -8 | 12 -12 -12 -12 -12 | 12 -0 -0

18 -18 -6 -10 - - - | 12 -6 - - - | 12 -4 -0 -4 | 17 -4 - - - | 2 -2 -2 -2

9 -8 - - - | 14 -8 - - - | 0 -0 -4 -0 | - - -2 - - - | 0 -3

9 - - -0 - - - | 15 -2 -9 -2 | 19 - - -3 - - - | 3 -3 - - - | 3 - - -0 -3

0 -0 -1 -0 - - - | 12 - - -3 - - - | 3 -3 - - - | 5 - - -3 - - - | - - -

186

188

190

0	0	0	1 1-3	5-1	12	1-1	3-0	1-3	0
3	4	4	4	4	4	2	4	5	4
7	0	0-2-2	0-2	0	3	3	0-9	0	
10	5	5	3	3-3-3	3	0			
10			1 1	1	1				

192

194

196

7	5	1	7	2	0	1-1-1	15		
0-0	0-4	0	0-0-0-0	0	0-4	3	3-4	3	
4	2	2-2-2-4	2-2-0	5	9	9	0		
0	0	5	2-2-0	6	7	0	2		
		3	5 5			0	0		

198

200

202

204

7	7-8	5	1	3-5-7-8	12	8	7	10-12-12-13-13	
5	4	6	4	0-0-4	1	0	10	4	6
4	4	4	4	0-2-4-0	4	0-0	4	4	
0	2	5	0	7	5	3-0	0-0	7	
		8		8	8		10		
		10					12-0		

205

207

209

13	13	1 1-1	1-15	15-15-12	0	3-12-3-13-12-15-1-17	12	10-8	
6	0	0	6	8	4	5	6	8	10
				2	2	0	0	0	10
				2	2	0	0	14	
				0	0	0	2	0	

210

212

214

12	15	19-15-0-8-7	5-5-7-5-10-13	1-1-8-7-7	10	12	13		
1		12	4	0	6	0-3	8-0-0-3-10	0-0	4
2	2-2-2-1-2	0-2-2	0	0	5	4	4	0-4	4
5	5	0	0	0	5	0-0	5-0-0	0	0-0-0
0					5				0

215

217

219

1	1	15-15-15-15-15-17-15-1	12	10-0	0	8-8-8	13	12	10	11
	3	6	18-6	10	3		6			
0		7	14-7			0-0-0-2	2-0	0-0-0-0	0	
0		10	0	0	0	5		5		
		10		0						

221

223

225

10	12	15	15-1	12	3-1	15-14-13-15	12-12	12	8-12-8	8-9	10	11	12	12	
		8	8	8	3	4	8	7	18	6	13	13	2	4	5
0	0	0	0	0	0	0	13	0	10	9	14		0	0	0
				5	3	2			5						
									1						

227

229

231

15	16	17	3-13	14	5	5-13	12	0-13	1	15	3-13	3	13	13	1
8	5	10	9		9	5	0		4	8	4	0	4	5	3
	8	10	11		4				4	7			4	8	5
0	0	0			2	2		0-2	0	9	0		12	12	3-3-3
					5			5					14		
					0			0	0	0			0		

233

The musical score is for the song "T.A.B." by The Beatles. It is written for guitar and bass. The guitar part is in the key of D major and 4/4 time. The bass part is in the key of D major and 4/4 time. The score is divided into two systems, each with five measures. The guitar part is written on a standard six-string guitar staff, and the bass part is written on a standard four-string bass staff. The guitar part includes a capo on the first fret, indicated by a "C" with a bracket. The bass part includes a capo on the first fret, indicated by a "C" with a bracket. The score is written in a standard musical notation style, with notes, rests, and bar lines. The guitar part includes a capo on the first fret, indicated by a "C" with a bracket. The bass part includes a capo on the first fret, indicated by a "C" with a bracket. The score is written in a standard musical notation style, with notes, rests, and bar lines. The guitar part includes a capo on the first fret, indicated by a "C" with a bracket. The bass part includes a capo on the first fret, indicated by a "C" with a bracket.

239

239 1 -1 -13 -1 13 -13 -1 -1 15 -1 -1 -1 -15 -17 -7 241 5 19 10 12 243 8 19 15
 0 6 6 8 5 10 10 4 13 1 1 17 -3 -1 -3 -3 3 8 1 13 8 -3 -3
 4 10 1 8 2 4 2 16 7 7 7 7
 3 3 5 -3 -5 7 2 2 2 0 10 0 0 0

244

244 246 248 250

13 13 12 0 10 0 0 1 5 7 3 5 8 5 13 8 5 3
 6 3 6 5 3 0 3 0 0 0 0 4 4 3 0 6 6 1 1 4 1
 7 9 5 5 2 2 3 0 7 2 4 4 0 0 2 3 3 5 2 0
 13 2 0 2 2 3 0 7 3 4 4 0 0 2 3 3 5 2 0
 17 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
 10

251

251 253 255

The musical score consists of three staves labeled J, A, and B. The notation includes various musical symbols such as notes, rests, and accidentals. The score is divided into measures, with measure numbers 251, 253, and 255 indicated above the staves. The notation is complex, featuring many accidentals and ties, suggesting a highly technical or experimental piece.

257

257 259 261

T A B

5 5 1 5 7 5 5 5 3 1 5 8 8 8 10 13 8 5 1 1 3 5

1 0 0 0 0 0 4 13 17 13 0 0 0 6 0 0

4 2 2 2 2 10 10 10 8 2 0

7 7 3 3 10 14 9 2 3 12

10 0 0 5 3 3 3 3 3 2 0 14

263

263 10 7 5 1 1 1 3 10 5 1 7 12 7 5 5 267 17 5 15 5 3 8 8
3 0 0 5 5 3 4 10 17 10 6 6 10 0 4 13 -1 0
4 4 4 4 0 2 7 4 14 4 9 4 4 0 4 16
5 3 3 3 3 3 3 0 3 0 5 9 3 0 14 2 3 9 7 5 0
0 0 8 10 14 7 5 0
12 13 13

268

268 270 272

274

274 1 17 5 10 8 8 8 10 10 7 15 278 12 13 15 17 5 3 5 3
3 6 3 5 3 4 0 18 0 17 6 8 10 4
2 10 9 8 7
13 9 9 3 2 2 3 3 2
14 10 10 7 0 0

280 19 — 19 — 19 — 19 | 15 — 19 — 17 — 15 — 13 | 282 17 — 5 — 5 | 15 — 15 — 12 | 284 12 — 12 — 16

12 — 0 — 15 | 13 — 13 — 6 | 10 — 4 — 5 | 0 — 0 — 4 | 0 — 15

0 — 0 — 0 — 0 — 0 | 0 — 2 — | 4 — | 4 — | 6 —

5 — 3 — | | | |

285 16 — 16 — 10 — 10 — 19 | 15 — 15 — 3 — 3 — 15 — 15 | 287 13 — 15 — 13 — 19 | 8 — 8 — 15 — 12 — 8 | 289 0 — 0 — 7 — 5 — 3 — 1

13 — 13 — 12 | 8 — 4 — 8 — 8 | 18 — 4 — 0 — 4 | 0 — 0 — 4 — 5 | 1 — 1 — 3 — 5

4 — 4 — | 10 — 4 — 4 — | 0 — 0 — 2 — 0 — | 0 — 0 — 2 — | 2 — 0 —

0 — 2 — | 9 — 4 — 4 — 0 — | 0 — 0 — 2 — 0 — | 0 — 2 — | 5 — 0 — 2 —

1 — 1 — | 5 — 5 — | 1 — 1 — | 7 —

291 0 — 13 — 12 | 3 — 5 — 5 | 293 8 — 10 — | 12 — 15 — 15 — 13 — 3 | 295 8 — 12 — 17 — 5

1 — 4 — 3 — | 5 — 8 — 18 — 6 — | 6 — 6 — 10 — 4 —

0 — 7 — 0 — 0 — 0 — | 0 — 0 — 9 — 0 — 12 — 0 — | 9 — 8 —

2 — 2 — 2 — 2 — | 2 — 2 — 0 — 2 — | 9 — 5 — 15 — | 10 —

0 — | 10 — 18 — | 3 —

296 10 — 1 — 3 — | 3 — 10 — 17 — | 298 19 — 1 — 19 — 19 — 19 — 19 — | 19 — 8 — 19 — 8 — 19 — 8 — 19 — | 300 10 — 8 — 10 — 19 — 12 — 10 — 12 — 10

13 — 3 — 3 — 3 — | 3 — 3 — 4 — | 12 — 13 — 15 — | 15 — 13 — 15 —

10 — 0 — 0 — 0 — | 0 — 7 — 0 — | 10 — 10 — 7 — | | |

12 — 3 — 3 — | 0 — | 12 — 13 — 9 — | | |

15 — 7 — | 10 — 17 — | 10 — 17 — | | |

0 — | 3 — 19 — | | |

301 13 — 13 — 1 — 15 — | 15 — 12 — 13 — 13 — 12 — 13 — 12 — 17 — | 303 17 — 13 — 12 — 12 — 12 — 13 — | 10 — 8 — 10 — 10 — 8 — | 305 19 — 19 — 17 — 10 — 19

18 — 18 — | 15 — 18 — 17 — 18 — | 18 — 4 — 17 — | 15 — 0 — 13 — | 12 — 10 — 0 —

8 — | 8 — | | |

306 15 — 10 — 19 — 17 — | 12 — 15 — 12 — 15 — 19 — 17 — 17 — 5 — | 308 17 — 5 — 5 — 13 — 5 — | 12 — 8 — 12 — | 310 1 — 1 — 10 — 8 —

8 — 13 — 16 — | 17 — 8 — 13 — 10 — 8 — | 8 — 4 — 18 — | 5 — 3 — 13 — 1 — 6 — | 5 — 5 — 10 — 1 —

9 — | 16 — | 4 — 10 — | 4 — 5 — | 7 — 7 — 8 —

17 — | 15 — | 9 — | 2 — 2 — | 10 — 10 — 3 — 12 — | 10 — 10 — 4 —

3 — | | | |

311 13 — 17 — 7 — 8 — 8 — 5 — | 13 — 1 — 1 — 1 — 1 — | 313 15 — 15 — 15 — 15 — 15 — | 17 — 17 — 19 — 19 — | 315 19 — 8 — 19 — 15 — 12 — 12

17 — 5 — 4 — | 6 — | 15 — 15 — 15 — 15 — 15 — | 6 — | 13 — 6 — 5 —

10 — | 0 — 0 — 0 — 0 — | 0 — | 0 — 0 — 0 — 2 — 0 — | 2 — 2 — 8 —

14 — | 5 — 5 — 5 — | 3 — 3 — 3 — 3 — | 5 — | 3 —

3 — | | | |

316 13 — 13 — 13 — 17 — 17 — | 17 — 12 — 12 — 13 — 1 — 15 — | 318 15 — 5 — 3 — | 3 — 17 — 12 — | 320 12 — 3 — 0 — 0 — 0 —

8 — 4 — 10 — 8 — | 2 — 5 — 18 — 8 — | 8 — 8 — | 4 — 5 — 8 — | 5 — 8 —

0 — | 8 — | 8 — | 8 — | 8 —

0 — | | | |

322

324

326

The musical score for 'T A B' is presented on two staves: guitar (top) and bass (bottom). The guitar staff features a key signature of one flat (Bb) and a 12/8 time signature. The bass staff is in common time (C). The score is divided into measures by vertical bar lines. The guitar staff includes various musical notations such as whole, half, and quarter notes, rests, and a double bar line. The bass staff includes whole, half, and quarter notes, rests, and a double bar line. The score is written in a standard musical notation style with a key signature of one flat and a 12/8 time signature for the guitar part.

335 337 339 341

Musical notation for measures 335 through 341. The notation includes various notes, rests, and accidentals across multiple staves.

342 344 346

The musical score consists of three staves labeled T, A, and B. The notation includes various musical symbols such as notes, rests, and accidentals. The score is divided into measures, with measure numbers 342, 344, and 346 indicated above the staves. The notation is complex, featuring many accidentals and ties, suggesting a highly technical or experimental piece.

[illegible]

[illegible]

383 385 387

19 19 12 0 0 19 13 15 15 17 15 1 1 19 19 5
12 12 17 4 0 12 6 4 10 18 4 12 4 0 4 0 0
0 9 0 4 0 0 0 5 2 4 2 2 10 10 0 0 10 2 2 4 2 2 4 4
13 13 14 14 15 10 8 0 10 5 5

389 15 19 13 391 1 1 393 15 17 17 13 15 12 12 1 12 1 1 12

T 8 0 4 0 0 0 13 0 4 4 0 0 4 8 10 10 6 5 5 3 4 6

A 4 2 4 0 0 18 4 4 4 4 4 7 7 7 4 7

B 5 5 3 5 0

[illegible]

407 17 17 15 5 5 12 12 8 0 7 5 3 5 5 7 7 8 0

10 10 8 4 4 5 5 1 1 4 4 4 0 4 0 5 0 0 0 13 4

3 3 0 2 4 4 4 2 4 5 4 0 0

1

409 411 413

The Rose Tree

[illegible]

420 422 424

426 428 430

432 434 436

438 440 442

444 446 448

449 451 453

454 456 458

459 461 463

465 467 469

13 15 3 3 3 13 13 13 5 5 13 12 8 13 13 13 1 13 15 12 15 3 3

17 8 4 6 4 4 4 4 4 4 4 4 6 6 6 17 18 4 6

9 0 0 0 0 0 0 0 0 0 0 0 3 3 9 3 10 12 4 7

0 0 0 0 0 0 0 0 0 0 0 0 7 8 8 8 14 14 2

0 0 0 0 0 0 0 0 0 0 0 0 1 12 0

471 473 475

3 8 12 13 15 17 5 15 13 12 10

4 1 1 0 2 5 8 3 5 8 8 3

3 1 1 0 2 0 0 0 0 2 2 2 3 3 3 3 5 3 3

1 1 1 1 2 0 0 0 0 2 2 2 3 3 3 3 5 3 3

0 0 0 0 0 0 0 0 0 0 0 0 7 7 0

477 479 481

10 8 12 15 15 15 0 0 0 17 5 19 19 5 10 12 12 8 0 0

3 1 3 0 5 5 5 10 12 12 10 12 12 15 0 0 0 0

2 4 4 2 2 2 2 7 7 7 7 7 7 2 2 2 2 2 2

0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

482 484 486 488

13 13 15 13 12 10 5 5 5 13 0 12 5 13 0 15 15 15

6 6 8 8 17 5 5 17 0 12 5 5 6 6 6 6 6 6

0 0 0 2 14 14 9 2 2 2 2 2 2 2 2 2 2 2

2 0 0 0 0 0 0 2 2 2 2 2 2 2 2 2 2 2

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

489 491 493

15 15 15 13 13 1 17 17 15 15 15 12 12 0 15 0 17 17 0 17 0 0 0 0 0 0 0 10 12 13 0

10 8 18 18 5 18 18 6 3

12 10

14 2 2 12 12 0

7 5

494 496 498

15 15 0 0 5 5 5 17 5 12 12 13 4 5 1 1 12 12 10 10 8 0 0

8 8 8 8 10 6

10 10 2 2 9

0 0

500 502 504

12 13 0 15 15 0 0 0 15 13 3 0 10 8 7 7 15 15

5 10 10 10 8 18 3 10 3 3 3 3 3 3 3 3 3 3

0 2 0 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

506 508 510

15 5 8 0 19 0 15 0 0 0 0 0 0 0 8 12 13 13 13 19 15 13 15 15 17 19 19 15 13

5 13 0 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0 8 18 18 18 18 18 18 18 18

0 9 10 9 9 9 9 9 9 9

0 0


0 0

513

517

521

523

	15	15	15	0	15	13	13	8	1	5	19	0	17	15	15	3	0	15	0	15	15	3	15	13
	5	8	8	5	6	10	13	13			12	10	8			0	0	8	0	0	5		6	
	2	9	9		4	4	10	10			9						9		4					
				7			14	0	9	2	2	2	2	2	2	0	2	9	0	0		0	0	0
	0			0	2		15	2	2		7		5			5					5	5		3
								19			0					9							8	

524

526

[illegible]

528

530

10	10	13	15	19	15	12	0	8	15	19	8	7	7	0	8	13	15	12	15	15	0	17	12	13	12
T																									
A			8	10	12	3		3	5	0	1	3	3	3		12	1	8	5	17		17	5	5	
B		2	2																						
				0	9	0			9	0		0	0	0	0	9				14		14			

532

534

536

Figure 10: The 12th order approximation of the \mathcal{J}_{AB} function. The plot shows the function value (y-axis, ranging from -5 to 15) versus the parameter α (x-axis, ranging from 0 to 1). The function is plotted for various values of β (0, 1, 2, 3, 4, 5, 7, 8, 12, 15). The curves are labeled with their corresponding β values. The function is generally increasing with α , and the rate of increase is higher for larger values of β .

538

540

542

Figure 1 illustrates the construction of the TTB (Topological Tensor Basis) for the 3D Ising model. The diagram is divided into six panels, (a) through (f), showing the evolution of the lattice structure. Each panel displays a 3D lattice of sites (represented by dots) and bonds (represented by lines). The panels show the addition of new sites and bonds to the existing lattice, illustrating the construction of the TTB.

544

546

548

550

[illegible]